

**CLAIMS**

1. A recombinant DNA molecule comprising pancreas expressed chemokine (panec-1) gene, whose nucleotide sequence is shown in SEQ ID NO 1.
2. A diagnostic test for activated or inflammatory conditions of the pancreas comprising the steps of
  - a) providing a biological sample; and
  - b) combining the biological sample with the DNA molecule of claim 1 or a fragment thereof.
3. The diagnostic test of claim 2 wherein the activated condition comprises pancreatitis.
4. The antisense DNA of the DNA molecule of claim 1.
5. An expression vector comprising the DNA molecule of claim 1.
6. A host cell transformed with the expression vector of claim 5.
7. A method for producing the pancreas expressed chemokine polypeptide (PANEC-1), said method comprising the steps of
  - a) culturing the host cells of claim 6 under conditions suitable for the expression of PANEC-1; and
  - b) recovering PANEC-1 from the cell culture.
8. A purified PANEC-1 polypeptide whose amino acid sequence is shown in SEQ ID NO 2.
9. An antibody specific for the polypeptide of claim 8.
10. A diagnostic test for activated or inflamed conditions of the pancreas comprising the steps of
  - a) providing a biological sample; and
  - b) combining the biological sample with the antibody of claim 9.
11. A pharmaceutical composition comprising the antibody of claim 9 and a pharmaceutically acceptable excipient.
12. A method of treating the activated or inflamed condition of the pancreas comprising administering to an individual suffering therefrom the pharmaceutical composition of claim 11 in an effective dosage.
13. A recombinant DNA molecule comprising pancreas expressed chemokine (panec-2) gene, whose nucleotide sequence is shown in SEQ ID NO 3.
14. A diagnostic test for activated or inflammatory conditions of the pancreas comprising the

steps of

- a) providing a biological sample; and
- b) combining the biological sample with the DNA molecule of claim 13 or a fragment thereof.

- 15. The diagnostic test of claim 14 wherein the activated condition comprises pancreatitis.
- 16. The antisense DNA of the DNA molecule of claim 13.
- 17. An expression vector comprising the DNA molecule of claim 13.
- 18. A host cell transformed with the expression vector of claim 17.
- 19. A method for producing the pancreas expressed chemokine polypeptide (PANEC-2), said method comprising the steps of
  - a) culturing the host cells of claim 18 under conditions suitable for the expression of PANEC-2; and
  - b) recovering PANEC-2 from the cell culture.
- 20. A purified PANEC-2 polypeptide whose amino acid sequence is shown in SEQ ID NO 4.
- 21. An antibody specific for the polypeptide of claim 20.
- 22. A diagnostic test for activated or inflamed conditions of the pancreas comprising the steps of
  - a) providing a biological sample; and
  - b) combining the biological sample with the antibody of claim 21.
- 23. A pharmaceutical composition comprising the antibody of claim 21 and a pharmaceutically acceptable excipient.
- 24. A method of treating an activated or inflamed condition of the pancreas comprising administering to an individual suffering therefrom the pharmaceutical composition of claim 23 in an effective dosage.

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